Claims

- A heat exchanger comprising plates (10) with a pattern of grooves and connections for inlets and outlets, placed in a pack and brazed, so that separate channels for two media between alternating pair of plates (10) are formed, characterized in that a set of holes (20) is arranged through said plates (10) around said connections (1, 6) and in that reinforcement means (30) are arranged through said holes (20).
- 10 2. A heat exchanger according to claim 1, characterized in that brazings (12, 13, 14) are arranged to seal off the holes (20) towards the channels.
- 3. A heat exchanger according to claim 2, characterized in that said holes (20) are arranged in rotational symmetry through the plates (10), with regard to a 180 degrees rotation.
 - 4. A heat exchanger according to claim 3, characterized in that each of said reinforcement means (30) is a threaded rod having a first stop (32) at a first end.
- 5. A heat exchanger according to claim 4, characterized in that said reinforcement means (30) is arranged to be fixed at said pack by means of a second stop (50, 51) having at least one threaded hole, in which hole a second end of the reinforcement means (30) is arranged to be screwed.
- 6. A heat exchanger according to claim 5, characterized in that a pressure distributing disk (33) is arranged between an outer plate and said first stop (32) and in that said pressure distributing disk (33) has holes for said connection (1, 6).
- 30 7. A heat exchanger according to claim 6, characterized in that said pressure distributing disk (33) is a ring (33) having a recess (36) for receiving a flange coupling having a flange (60) with an inner edge (62) at a neck (61), whereby the inner edge (62) can be arranged at the recess (36).
- 35 8. A heat exchanger according to any one of the preceding claims, characterized in that 30 plates (10) are arranged in said pack.
 - 9. A heat exchanger according to any one of the preceding claims, **characterized** in that a number of packs of plates (10) are connected by means of a packing of

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rubber or copper between each pack.

10. A heat exchanger according to any one of the preceding claims, characterized in that a number of pack of plates (10) are connected by means of a flange coupling.

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